Industrial controller with clock-synchronous running level model

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A runtime system of an industrial controller has a running level model which has a plurality of running levels of different types with different priority. This stratification allows for minimization of the communication between the process controller and motion controller tasks. The running level model has a hierarchical structure with various running levels such as synchronously clocked levels, a user level for system exceptions, an event-controlled user level, a time-controlled user level, a sequential user level and a cyclical user level. Other prioritizing stratifications also may be provided.